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FOR REVIEW AND DISCUSSION
SUBJECT TO CHANGE

FY90 BASED AMBULATORY WORK UNIT (AWU) WEIGHT DEVELOPMENT



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VECTOR RESEARCH, INCORPORATED

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REPORT DOCUMENTATION PAGE

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FOREWORD

This document briefly summarizes the results of updating the ambulatory work unit (AWU) weights using FY90 Medical Expense and Performance Reporting System (MEPRS) ambulatory cost and visit data. In addition, the impact of updating from weights based on FY85 MEPRS cost and visit data, in terms of computed ambulatory workload at the workcenter, facility, and peer group level was reviewed.

This report was prepared under contract MDA903-88-C-0147.

Questions or comments should be directed to LTC Stu Baker, OASD(HA)

Resource Analysis and Management Systems, (703) 756-1918.

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1.0 FY90 MHSS AMBULATORY WORK UNIT

This report briefly summarizes the results and impact of updating the ambulatory work unit (AWU) weights based on FY85 cost and visit data to weights based on FY90 cost and visit data. Updated weights were computed using FY90 Medical Expense and Performance Reporting System (MEPRS) ambulatory cost and visit data using the methodology described in Military Health Service System Ambulatory Work Unit (AWU). The refined methodology for computing AWU weights, described in FY89 Military Health Service System Ambulatory Work Unit², was not used to compute AWU weights with FY90 data.

Exhibit 1-1 presents the FY90 based final weights (highlighted) as well as a comparison of the updated FY90 based weights to FY85 weights. The FY89 weight, and the number of FY89 and FY90 observations, are presented as supporting information in the development of the FY90 final weights. The number of observations is the number of facilities reporting both cost and visit data within each given workcenter after removing outliers as prescribed by the methodology. The process of updating the weights requires two fiscal years' data. FY89 and FY90 ambulatory cost and total visit data were used to develop FY90 based weights. A summary of the steps employed follows:

- 1) FY89 and preliminary FY90 based AWU weights were computed using the process described in Optenburg et al. These weights are presented in exhibit 1-1 as the FY89 AWU weights and FY90 AWU weights.
- As prescribed by the previously developed process, the weights were compared by workcenter and the average percentage change, a 2.1% increase, and the standard deviation of the percentage

¹Military Health Service System Ambulatory Work Unit (AWU), Optenburg et al. Report HR88-001, Health Care Studies and Clinical Investigation Activities, 1 April 1988.

²FY89 Military Health Service System Ambulatory Work Unit, VRI-DMIS-2.6, WP91-4, 26 September 1991.

conter Description Weight AMU AMU F799 Abery Observation 0.0034 0.0032 0.0043 0.0043 0.0043 0.0043 0.0043 0.0043 0.0043 0.0043 0.0043 0.0043 0.0043 0.0043 0.0044 0.0022 0.0043 0.0044 0.0022 0.0043 0.0044 0.0022 0.0044 0.0022 0.0043 0.0044 0.0022 0.0043 0.0046 0.0044 0.0042 0.0046		3		?						
Internal Medicine		AWU	AWU	AWU	FY89	FY90	Percentage	Adjusted	Final	Percentage
Allery	Description	Weight	Weight	Weight	Observations	Observations	Difference	Weight	Weight	Difference
Altergy 0,0083 0,0080 0,0077 Carachology 0,0264 0,0252 0,0313 Discbebic 0,0267 0,0257 0,0313 Endocarinology 0,0289 0,0359 0,0343 Hematology 0,0439 0,0480 0,0480 Hypartension 0,0452 0,0480 0,0484 Naturition 0,0412 0,0480 0,0480 Naturaliony 0,0410 0,0480 0,0480 Physical Madicine 0,0410 0,0480 0,0480 Infectious Disease 0,0410 0,0356 0,0490 Demandology 0,0410 0,0356 0,0584 Demandology 0,0410 0,0370 0,0480 Infectious Disease 0,0410 0,0423 0,0490 Infectious Disease 0,0446 0,0224 0,0490 Infectious Disease 0,0446 0,0224 0,0490 Infectious Disease 0,0446 0,0223 0,0490 General Curin MEC 0,0490 0,0223<	Internal Medicine	0.0395	0.0392	0.0403	158	162	2.8%		0.0403	2.0%
Cardiology 0.0364 0.0252 0.0313 Diazhelic 0.0267 0.0237 0.0222 Endocrinology 0.0399 0.0347 0.0366 Abmatology 0.0388 0.0347 0.0366 Hypertension 0.0455 0.0340 0.0400 Hypertension 0.0455 0.0370 0.0400 Nutrition 0.0722 0.0127 0.0400 Oncology 0.0724 0.0252 0.0400 Putronory Disease 0.0417 0.0262 0.0400 Demaiology 0.0127 0.0402 0.0402 Infectious Disease 0.0417 0.0296 0.0134 Physical Medicine 0.0127 0.0402 0.0402 Infectious Disease 0.0436 0.0234 0.0257 Physical Medicine 0.0436 0.0235 0.0402 Optical Medicine 0.0436 0.0234 0.0257 Optical Medicine 0.0436 0.0273 0.0402 0.0427 Optical Medicine 0.0446 <td>Allergy</td> <td>0.0083</td> <td>0.0080</td> <td>0.0077</td> <td>137</td> <td>142</td> <td>-3.8%</td> <td></td> <td>0.0077</td> <td>7.2%</td>	Allergy	0.0083	0.0080	0.0077	137	142	-3.8%		0.0077	7.2%
Endecrinology 0.0267 0.0227 Endecrinology 0.0399 0.0347 0.0262 Gasatroenterology 0.0338 0.0348 0.0346 Hyperferration 0.0455 0.0490 0.0440 0.0460 Hyperferration 0.0455 0.0490 0.0440 0.0462 Neptracional Sy 0.0629 0.0522 0.0480 0.0184 Numericology 0.07127 0.0402 0.0402 0.0462 Pulmonory Disease 0.0410 0.0352 0.0584 0.0484 0.0484 Pulmonory Disease 0.0410 0.0352 0.0486 0.0342 0.0486 0.0340 Pulmonory Disease 0.0410 0.0242 0.0486 0.0341 0.0486 0.0341 0.0486 0.0341 Physical Medicine 0.0446 0.0273 0.0496 0.0257 0.0462 0.0486 0.0257 Adelical Clinic NEC 0.0345 0.0344 0.0273 0.0464 0.0577 0.0402 0.0477 0.0464 0.0567 <td>Cardiology</td> <td>0.0364</td> <td>0.0252</td> <td>0.0313</td> <td>39</td> <td>41</td> <td>24.2%</td> <td>0.0257</td> <td>0.0257</td> <td>-29.4%</td>	Cardiology	0.0364	0.0252	0.0313	39	41	24.2%	0.0257	0.0257	-29.4%
Endocrinology 0.0399 0.0347 0.0366 Gastincenterology 0.0338 0.0358 0.0368 0.0346 Hemistology 0.0455 0.0490 0.0460 0.0460 Hypertension 0.0623 0.0184 0.0184 Neurology 0.0629 0.0522 0.0189 0.0184 Nutrition 0.0026 0.0402 0.0402 0.0402 Ornology 0.0127 0.0085 0.0090 1 Physical Medicine 0.0410 0.0336 0.0341 0.0369 Dhysical Medicine 0.0410 0.0336 0.0241 0.0369 Medical Clinic NEC 0.0346 0.0402 0.0356 1 Cardiovascular and Thoracic Surgery 0.0346 0.0402 0.0427 1 Ophthalmology 0.0346 0.0356 0.0264 0.0275 0 Ophthalmology 0.0346 0.0377 0.0402 0 0 Ophthalmology 0.0346 0.0273 0 0 0 <td>Diabetic</td> <td>0.0267</td> <td>0.0237</td> <td>0.0222</td> <td>=</td> <td>10</td> <td>-6.3%</td> <td></td> <td>0.0222</td> <td>.16.9%</td>	Diabetic	0.0267	0.0237	0.0222	=	10	-6.3%		0.0222	.16.9%
Gastroenterology 0.0338 0.0358 0.0343 Hematology 0.0455 0.0490 0.0480 Hypertension 0.0232 0.0189 0.0184 Neurology 0.0629 0.0522 0.0184 Nutnion 0.0127 0.0085 0.0905 Omcology 0.0127 0.0085 0.0090 Pulmonory Disease 0.0446 0.042 0.0402 Pulmonory Disease 0.0446 0.037 0.0389 Dematology 0.0446 0.037 0.0389 Dematology 0.0241 0.0235 0.0391 Infectious Disease 0.0446 0.0271 0.0257 Physical Medicine 0.0241 0.0256 0.0358 Medicine Disease 0.0243 0.0256 0.0257 Medicine NEC 0.0285 0.0244 0.0257 Ophalmology 0.0244 0.0257 0.0402 Ophalmology 0.0244 0.0264 0.0247 Ophalmology 0.0244 0.0264 0.02	Endocrinology	0.0399	0.0347	0.0366	8	19	8:2%		0.0366	-8.3%
Hematology 0.045S 0.049S 0.049B 0.049B Hypartension 0.0222 0.0184 0.0184 0.0184 Neurology 0.00529 0.0529 0.0584 0.0402 0.0402 Nutrition 0.0027 0.0065 0.0090 0.0402 0.0402 0.0402 Pulmonory Disease 0.0127 0.0065 0.0269 0.0269 0.0369 0.0369 Pulmonory Disease 0.0466 0.023 0.0269 0.0369 0.0369 0.0369 Physical Medicine 0.0246 0.0276 0.0295 0.0194 0.0257 Physical Medicine 0.0246 0.0246 0.0257 0.0256 0.0257 Medical Clinic NEC 0.0246 0.0245 0.0256 0.0257 0.0257 Organ Transplant 0.0245 0.0245 0.0269 0.0269 0.0269 Optalamicology 0.0406 0.0273 0.0284 0.0284 0.0284 Prociology 0.0406 0.0234 0.0284 0.0284	Gastroenterology	0.0338	0.0358	0.0343	35	35	4.2%		0.0343	1.5%
Hypertension 0.0232 0.0184 0.0184 Nepthrology 0.0629 0.0522 0.0584 Numrition 0.0127 0.0005 0.0402 Oncology 0.0117 0.0005 0.0402 Pulmonory Disease 0.0410 0.0335 0.0341 Physical Medicine 0.0241 0.0259 0.0341 Physical Medicine 0.0246 0.0216 0.0267 Infectious Disease 0.0246 0.0276 0.0368 Dematology 0.0246 0.0276 0.0267 Infectious Disease 0.0246 0.0276 0.0267 Medical Clinic NEC 0.0246 0.0276 0.0267 General Surgery 0.0345 0.0236 0.0427 Opthalmology 0.0276 0.0273 0.0287 Opthalmology 0.0266 0.0273 0.0287 Opthalmology 0.0276 0.0273 0.0287 Optaclogy 0.0278 0.0284 0.0287 Proctology 0.0496 0.0273	Hematology	0.0455	0.0490	0.0480	19	19	-2.0%		0.0480	5.5%
Nephrology 0.0629 0.0522 0.0584 Neurology 0.0127 0.0402 0.0402 Nutrition 0.0466 0.0370 0.0402 Pulmonory Disease 0.0410 0.0335 0.0341 Physical Medicine 0.0343 0.0229 0.0358 Demaiology 0.0216 0.0216 0.0207 Infectious Disease 0.0343 0.0229 0.0341 Physical Medicine 0.0343 0.0229 0.0358 Medical Chinic NEC 0.0395 0.0194 0.0257 General Surgery 0.0395 0.0194 0.0257 Cardiovascular and Thoracic Surgery 0.0245 0.0235 0.0255 Organization Cartinology 0.0245 0.0264 0.0267 Optiminology 0.0273 0.0402 0.0427 Organization Cartinology 0.0264 0.0264 0.0247 Plastic Surgery 0.0406 0.0232 0.0264 0.0265 Productiongy 0.0496 0.0234 0.0266 1 <	Hypertension	0.0232	0.0188	0.0184	14	13	-2.1%		0.0184	-20.7%
Neurology 0.0364 0.0402 0.0402 Nutrition 0.0127 0.0085 0.0900 Oncology 0.0456 0.0370 0.0369 Pulmonory Disease 0.0410 0.0335 0.0341 Rheumatology 0.0216 0.0376 0.0369 Dematology 0.0216 0.0276 0.0369 Physical Medicine 0.0395 0.0194 0.0257 Redizal Clinic NE 0.0395 0.0194 0.0257 Medical Clinic NE 0.0395 0.0194 0.0257 General Surgery 0.0395 0.0194 0.0257 Opthalmology 0.0345 0.0333 0.0352 Organization Clinics Nerse 0.03677 0.0402 0.0247 1 Pleasitic Surgery 0.0368 0.0264 0.0264 0.0264 0.0264 Proctology 0.0496 0.0236 0.0264 0.0264 0.0264 Pediatric Surgery 0.0236 0.0236 0.0266 1 Family Planning 0.0236<	Nephrology	0.0629	0.0522	0.0584	19	19	11.9%		0 0584	-7.2%
Nutrition 0.0127 0.0085 0.0090 Orcology 0.0466 0.0370 0.0369 Pulmonory Disease 0.0410 0.0335 0.0341 Rheumatology 0.0243 0.0296 0.0358 Dematology 0.0296 0.0297 0.0269 Infectious Disease 0.0395 0.0194 0.0257 Medical Clinic NEC 0.0395 0.0194 0.0257 Candiovascular and Thoracic Surgery 0.0395 0.0194 0.0257 Opthalmology 0.0277 0.0402 0.0259 Organ Transplant 0.0276 0.0273 0.0282 Organ Transplant 0.0276 0.0273 0.0282 Ordaryngology 0.0276 0.0273 0.0282 Prodology 0.0283 0.0284 0.0284 Prodology 0.0296 0.0226 0.0247 Pediatric Surgery 0.0296 0.0226 0.0236 Surgical Clinics NEC 0.0249 0.0274 0.0286 Surgical Clinics NEC 0.	Neurology	0.0364	0.0402	0.0402	55	98	0.0%		0.0402	10.4%
Pulmonory Disease 0.04466 0.0370 0.0369 Pulmonory Disease 0.0410 0.0335 0.0241 Physical Medicine 0.0243 0.0299 0.0258 Infectious Disease 0.0395 0.0194 0.0257 Infectious Disease 0.0395 0.0194 0.0257 Infectious Disease 0.0395 0.0194 0.0257 Physical Medicine 0.0395 0.0194 0.0257 General Surgery 0.0395 0.0233 0.0259 Cardiovascular and Thoracic Surgery 0.0345 0.0233 0.0250 Neurosurgery 0.0377 0.0402 0.0427 Organ Transplant 0.0723 0.1091 0.0990 Ordaryingology 0.0406 0.0273 0.0282 Prodology 0.0406 0.0236 0.0247 Prodology 0.0406 0.0236 0.0247 Produced Surgery 0.0406 0.0236 0.0247 Producingy 0.0406 0.0236 0.0246 Surgical Clinics NEC	Nutrition	0.0127	0.0085	0.0000	146	145	5.9%		00000	-29.1%
Pulmorory Disease 0.0410 0.0335 0.0341 Rheumatology 0.0216 0.0299 0.0358 Dermatology 0.0216 0.0216 0.0207 Infectious Disease 0.0395 0.0216 0.0207 Infectious Disease 0.0395 0.0216 0.0207 Medical Clinic NEC 0.0395 0.0213 0.0253 General Surgery 0.0345 0.0323 0.0352 1 Optitalmology 0.0377 0.0402 0.0427 1 Optitalmology 0.0377 0.0402 0.0427 1 Organ Transplant 0.0276 0.0273 0.0264 0.0267 Organ Transplant 0.0276 0.0273 0.0273 0.0274 0.0267 Organ Transplant 0.0278 0.0273 0.0274 0.0274 0.0280 Plassic Surgery 0.0278 0.0274 0.0274 0.0274 0.0274 0.0274 0.0274 0.0274 0.0285 1 Podiatric Surgery 0.0284 0.0284 <td>Oncology</td> <td>0.0466</td> <td>0.0370</td> <td>0.0369</td> <td>23</td> <td>83</td> <td>-0.3%</td> <td></td> <td>0.0369</td> <td>-20.8%</td>	Oncology	0.0466	0.0370	0.0369	23	83	-0.3%		0.0369	-20.8%
Physical Medicine	Pulmonory Disease	0.0410	0.0335	0.0341	98	27	1.8%		0.0341	-16.8%
Infectious Disease	Rheumatology	0.0343	0.0299	0.0358	17	19	19.7%	0.0323	0.0323	-5.8%
Infectious Disease 0.0395	Dermatology	0.0216	0.0216	0.0207	91	93	-4.2%		0.0207	-4.2%
Physical Medicine 0.0395 0.0352 Medical Clinic NEC 0.0345 0.0223 0.0259 General Surgery 0.0345 0.0333 0.0352 1 Cardiovascular and Thoracic Surgery 0.0377 0.0402 0.0427 1 Neurosurgery 0.0377 0.0402 0.0427 1 0 Ophtalmology 0.0276 0.0276 0.0273 0.0402 0.0507 Organ Transplant 0.0273 0.1091 0.0990 0	Infectious Disease	0.0395	0.0194	0.0257	11	19	32.5%	0.0213	0.0213	-46.1%
Medical Clinic NEC 0.0395 0.0259 General Surgery 0.0345 0.0333 0.0352 1 Cardiovascular and Thoracic Surgery 0.0377 0.0402 0.0427 Neurosurgery 0.0276 0.0273 0.0402 0.0402 Ophtalmology 0.0276 0.0273 0.0282 0.0282 Ordaryngology 0.0723 0.1091 0.0990 Plassit Surgery 0.0406 0.0250 0.0247 1 Proctology 0.0234 0.0236 0.0252 1 Urology 0.0496 0.0236 0.0252 1 Padiatric Surgery 0.0496 0.0236 0.0255 1 Surgical Clinics NEC 0.0249 0.0274 0.0280 3 Surgical Clinics NEC 0.0249 0.0274 0.0280 3 Surgical Clinics NEC 0.0249 0.0274 0.0280 3 Chairting 0.0249 0.0274 0.0280 3 4 Chairting 0.0249 0.0255 <td>Physical Medicine</td> <td>0.0395</td> <td>i</td> <td>0.0352</td> <td>0</td> <td>=</td> <td></td> <td></td> <td>0.0352</td> <td>.10.9%</td>	Physical Medicine	0.0395	i	0.0352	0	=			0.0352	.10.9%
General Surgery 0.0345 0.0333 0.0352 1 Neurosurgery 0.0377 0.0402 0.0427 0.0427 Neurosurgery 0.0583 0.0464 0.0507 Opthalmology 0.0276 0.0273 0.0282 Origan Transplant 0.0276 0.0273 0.0282 Origan Transplant 0.0305 0.0264 0.0247 1 Plestic Surgery 0.0305 0.0264 0.0247 1 Proctology 0.0206 0.0350 0.0382 0.0252 Unology 0.0207 0.0378 0.0394 0.0252 Pediatric Surgery 0.0204 0.0232 0.0355 1 Surgical Clinics NEC 0.0249 0.0234 0.0252 1 Surgical Clinics NEC 0.0249 0.0274 0.0280 Gynecology 0.0249 0.0274 0.0280 Gynecology 0.0260 0.0260 0.0265 1 Obstatrics 0.0260 0.0260 0.0265 1	Medical Clinic NEC	0.0395	0.0223	0.0259	4	4	16.1%		0.0259	-34.4%
Cardiovascular and Thoracic Surgery 0.0377 0.0402 0.0427 Neurosurgery 0.0563 0.0464 0.0507 Opthalmology 0.0276 0.0273 0.0282 Organ Transplant 0.0723 0.1091 0.0990 Ordaryngology 0.0305 0.0264 0.0247 1 Plestic Surgery 0.0406 0.0350 0.0247 1 Poctology 0.0234 0.0236 0.0252 1 Urology 0.0496 0.0236 0.0354 1 Padiatric Surgery 0.0496 0.0232 0.0355 1 Surgical Clinics NEC 0.0249 0.0234 0.0252 1 Surgical Clinics NEC 0.0249 0.0234 0.0280 1 Surgical Clinics NEC 0.0249 0.0274 0.0280 1 Surgical Clinics NEC 0.0249 0.0274 0.0280 1 Gyracoology 0.0249 0.0274 0.0280 1 Obstatrics 0.0256 0.0265 1 <td>General Surgery</td> <td>0.0345</td> <td>0.0333</td> <td>0.0352</td> <td>151</td> <td>155</td> <td>5.7%</td> <td></td> <td>0.0352</td> <td>2.0%</td>	General Surgery	0.0345	0.0333	0.0352	151	155	5.7%		0.0352	2.0%
Neurosurgery 0.0563 0.0464 0.0507 Opthalmology 0.0276 0.0273 0.0282 Organ Transplant 0.0723 0.1091 0.0890 Orleavingology 0.0305 0.0247 1 Phastic Surgery 0.0406 0.0350 0.0382 Proctology 0.0234 0.0252 0.0354 Urology 0.0397 0.0378 0.0394 Pediatric Surgery 0.0345 0.0188 0.0129 Family Planning 0.0249 0.0232 0.0355 Gynecology 0.0249 0.0274 0.0280 Gynecology 0.0249 0.0274 0.0280 Gynecology 0.0260 0.0255 1 Pediatrics 0.0260 0.0255 1 Pediatrics 0.0260 0.0255 1 Well Baby 0.0264 0.0211 0.0195 Podiatrics 0.0264 0.0214 0.0137 Occolumn 0.0266 0.0144 0.0137	Cardiovascular and Thoracic Sur	_	0.0402	0.0427	18	18	6.2%		0.0427	13.3%
Opthalmology 0.0276 0.0273 0.0282 Organ Transplant 0.0723 0.1091 0.0990 Ordaryngology 0.0723 0.1091 0.0990 Proctology 0.0234 0.0256 0.0252 Urology 0.0234 0.0236 0.0353 Padiatric Surgery 0.0496 0.0237 0.0394 Padiatric Surgery 0.0496 0.0232 0.0355 Surgical Clinics NEC 0.0249 0.0274 0.0280 Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0249 0.0274 0.0280 Gynecology 0.0266 0.0255 1 Obstetrics 0.0260 0.0256 0.0265 1 Pediatrics 0.0260 0.0259 0.0265 1 Obstetrics 0.0260 0.0259 0.0265 1 Obstetrics 0.0264 0.0211 0.0195 Dodiesterics 0.0264 0.0214 0.0137 1 Dodiestri	Neurosurgery	0.0583	0.0464	0.0507	19	18	9.3%		0.0507	-13.0%
Organ Transplant 0.0723 0.1091 0.0990 Ordanyingology 0.0305 0.0264 0.0247 1 Prestic Surgery 0.0406 0.0350 0.0382 Proctology 0.0234 0.0236 0.0252 Unology 0.0397 0.0378 0.0394 Pediatric Surgery 0.0496 0.0232 0.0355 Surgical Clinics NEC 0.0249 0.0232 0.0355 Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0255 1 Obstetrics 0.0256 0.0255 1 Pediatrics 0.0260 0.0259 0.0265 1 Pediatrics 0.0260 0.0259 0.0265 1 Pediatrics 0.0264 0.0211 0.0195 Padelatrics 0.0264 0.0211 0.0195 Padelatrics 0.0264 0.0211 0.0195 Padelatrics 0.0264 0.0211 0.0195 Padelatrics 0.0266	Opthalmology	0.0276	0.0273	0.0282	91	92	3.3%		0.0282	2.2%
Otolaryngology 0.0305 0.0264 0.0247 1 Plestic Surgery 0.0406 0.0350 0.0382 Proctology 0.0234 0.0236 0.0252 Urology 0.0397 0.0378 0.0394 Pediatric Surgery 0.0496 0.0232 0.0355 Surgical Clinics NEC 0.0249 0.0129 0.0280 Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0255 1 Obstetrics 0.0260 0.0255 1 Pediatrics 0.0260 0.0255 0.0265 Pediatrics 0.0260 0.0255 1 Pediatrics 0.0264 0.0211 0.0195 Padetrics 0.0264 0.0211 0.0195 Dadiatrice Clinica NEC 0.0264 0.0211 0.0195	Organ Transplant	0.0723	0.1091	0.0990	8	8	.6.3%		0.0990	36.9%
Pleastic Surgery 0.0406 0.0350 0.0382 Proctology 0.0234 0.0252 0.0252 Unology 0.0397 0.0378 0.0394 Packistric Surgery 0.0396 0.0232 0.0355 Surgical Clinics NEC 0.0345 0.0129 0.0280 Family Pleaning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0255 1 Obstetrics 0.0260 0.0255 0.0265 Pediatrics 0.0260 0.0265 0.0265 Pediatrics 0.0260 0.0265 0.0265 Pediatrics 0.0264 0.0211 0.0195 Well Baby 0.0156 0.0144 0.0137 Doduction Clinical NEC 0.0266 0.0144 0.0137	Otolaryngology	0.0305	0.0264	0.0247	<u>\$</u>	108	-6.4%		0.0247	-19.0%
Proctology 0.0234 0.0236 0.0252 Unclogy 0.0397 0.0378 0.0394 Pediatric Surgery 0.0496 0.0232 0.0355 Surgical Clinics NEC 0.0246 0.0232 0.0355 Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0255 0.0265 Obstetrics 0.0260 0.0259 0.0265 1 Pediatrics 0.0260 0.0269 0.0265 1 Adolescent 0.0264 0.0211 0.0198 1 Well Baby 0.0264 0.0211 0.0195 0.0264 Dodgesterics 0.0264 0.0211 0.0195 Packatrice Clinica NEC 0.0264 0.0211 0.0195	Plastic Surgery	0.0406	0.0350	0.0382	8	21	9.1%		0.0382	.5.5%
Urology 0.0397 0.0378 0.0394 Pediatric Surgery 0.0496 0.0232 0.0355 Surgical Clinics NEC 0.0249 0.0129 0.0129 Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0255 0.0265 Obstetrics 0.0260 0.0255 0.0265 Pediatrics 0.0260 0.0189 0.0188 Well Baby 0.0254 0.0211 0.0195 Dodgescent 0.0264 0.0211 0.0195 Dodgescent 0.0264 0.0211 0.0195 Dodgescent 0.0264 0.0211 0.0195	Proctology	0.0234	0.0236	0.0252	=	41	%8.9		0.0252	7.7%
Pediatric Surgery 0.0496 0.0232 0.0355 Surgical Clinics NEC 0.0345 0.0188 0.0129 Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0236 0.0255 1 Obstetrics 0.0260 0.0259 0.0265 1 Pediatrics 0.0260 0.0189 0.0188 1 Well Baby 0.0156 0.0144 0.0137 1 Dadiatrice Clinica NEC 0.0264 0.0271 0.0137 1	Urology	0.0397	0.0378	0.0394	98	93	4.2%		0.0394	%8 .0-
Surgical Clinics NEC 0.0345 0.0188 0.0129 Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0236 0.0255 1 Obstetrics 0.0260 0.0259 0.0265 1 Pediatrics 0.0200 0.0189 0.0188 1 Well Baby 0.0156 0.0144 0.0137 1 Doditrice Clinica MEC 0.0000 0.0001 0.0001 0.0001	Pediatric Surgery	0.0496	0.0232	0.0355	e	-	53.0%	0.0268	0.0268	46.0%
Family Planning 0.0249 0.0274 0.0280 Gynecology 0.0236 0.0236 0.0255 1 Obstetrics 0.0260 0.0259 0.0265 1 Pediatrics 0.0200 0.0189 0.0188 1 Adolescent 0.0254 0.0211 0.0195 1 Well Baby 0.0156 0.0144 0.0137 1 Dadiatrice Clinica NEC 0.0200 0.021 0.0201	Surgical Clinics NEC	0.0345	0.0188	0.0129	2	8	-31.4%	0.0156	0.0156	-54.8%
Gynecology 0.0236 0.0236 0.0255 1 Obstetrics 0.0260 0.0269 0.0265 1 Pediatrics 0.0200 0.0189 0.0188 1 Adolescent 0.0254 0.0211 0.0195 1 Well Baby 0.0156 0.0144 0.0137 1 Dodging School 0.0264 0.0211 0.0137 1	Family Planning	0.0249	0.0274	0.0280	48	84	2.2%		0.0280	12.4%
Obstatrics 0.0260 0.0265 1 Pediatrics 0.0200 0.0189 0.0188 1 Addescent 0.0254 0.0211 0.0195 1 Well Baby 0.0156 0.0144 0.0137 1 Dodgrade Clinica NEC 0.000 0.000 0.000 0.000	Gynecology	0.0236	0.0236	0.0255	174	174	8.1%		0.0255	8.1%
Pediatrics 0.0200 0.0189 0.0188 1 Adolescent 0.0254 0.0211 0.0195 Well Baby 0.0156 0.0144 0.0137 1 Dodatice Clinica NEC 0.0200 0.021 0.0403	Obstetrics	0.0260	0.0259	0.0265	157	152	2.3%		0.0265	1.9%
Addescent 0.0254 0.0211 0.0195 Well Baby 0.0156 0.0144 0.0137 1 Badistrice Clinica NEC 0.0000 0.0001 0.0001	Pediatrics	0.0200	0.0189	0.0188	183	183	-0.5%		0.0188	%0·9-
Well Baby 0.0156 0.0144 0.0137 Definition Clinica NEC 0.0000 0.0001	Adolescent	0.0254	0.0211	0.0195	8	28	-7.6%		0.0196	-23.2%
Destative Clinica NEC	Well Baby	0.0156	0.0144	0.0137	138	144	%6.≯		0.0137	.12.2%
Pedialitics Citizes NEC 0.0200 0.0291 0.0493	Pediatrics Clinics NEC	0.0200	0.0291	0.0493	41	13	69.4%	0.0330	0.0330	65.0%

EXHIBIT 1-1: FY90 BASED AWU WEIGHTS AND A COMPARISON TO FY85 WEIGHTS (Concluded)

		FY85	FY89	FY90			FY89 - FY90	FY90	FY90	FY85 - FY90
		AWU	AWU	AWU	FY89	FY90	Percentage	Adjusted	Finel	Percentage
Workcenter	Description	Weight	Weight	Weight	Observations	Observations	Difference	Weight	Weight	Difference
BEA	Orthopedics	0.0362	0.0320	0.0320	128	137	%0:0		0.0320	-11.6%
958	Cast	0.0200	0.0153	0.0147	9/	77	-3.9%		0.0147	-26.5%
BEC	Hand Surgery	0.0232	0.0246	0.0247	80	6	0.4%		0.0247	92%
BE D	Neuromusculoskeletal Screening	0.0133	0.0174	0.0159	15	41	%9 [.] 8·		0.0159	19.5%
BEE	Orthopedic Appliance	0.0326	0.0260	0.0235	25	49	%9 ·6-		0.0235	-27.9%
BEF	Podiatry	0.0211	0.0173	0.0189	8	85	9.5%		0.0189	-10.4%
BFA	Psychiatric	0.0346	0.0335	0.0329	71	72	-1.8%		0.0329	-4.9%
8FB	Psychology	0.0295	0.0276	0.0276	65	2	%0:0		0.0276	-6.4%
BFC	Child Guidance	0.0279	0.0270	0.0232	2	20	-14.1%	0.0262	0.0262	-6.1%
8FD	Mental Health	0.0332	0.0318	0.0313	146	144	-1.6%		0.0313	-5.7%
BFE	Social Work Services	0.0213	0.0244	0.0259	128	131	6.1%		0.0259	21.6%
BFF	Substance Abuse	0.0332	0.0210	0.0226	112	111	7.6%		0.0226	-31.9%
BFZ	Psychiatric Clinics NEC	0.0346	İ	ļ	0	0			0.0329	-4.9%
BGA	Family Practice	0.0268	0.0233	0.0245	118	122	5.2%		0.0245	-8.6%
8HA	Primary Care	0.0263	0.0251	0.0258	161	157	2.8%		0.0258	-1.9%
8H8	Medical Exams	0.0326	0.0309	0.0289	70	70	-6.5%		0.0289	-11.3%
BHC	Optometry	0.0163	0.0160	0.0164	198	191	2.5%		0.0164	%9:0
돮	Audiology	0.0150	0.0154	0.0136	73	9/	-11.7%		0.0136	.6.3%
꿅	Speech Pathology	0.0232	0.0193	0.0177	27	27	-8.3%		0.0177	-23.7%
BHF	Community Health	0.0389	0.0215	0.0182	29	85	-15.3%	0.0201	0.0201	-48.3%
BHC	Occupational Health	0.0255	0.0229	0.0224	3.	8	-2.2%		0.0224	-12.2%
五	PRIMUS/NAVCARE	0.0263	0.0186	0.0182	o	10	-2.2%		0.0182	-30.8%
Ī	Immediate Care Clinic	0.0263	į	0.0236	0	7			0.0236	-10.3%
BHZ	Primary Medical Care Clinics NEC	0.0263	i		0	0			0.0258	.1.9%
BIA	Emergency Medical	0.0335	0.0381	0.0410	179	173	%9 ['] L		0.0410	22.4%
BJA	Flight Medicine	0.0286	0.0325	0.0328	175	178	%6:0		0.0328	14.7%
BKA	Underseas Medicine	0.0304	0.0256	0.0133	2	2	-48.0%	0.0128	0.0128	-57.9%

-8.5%	12.2%
20.7%	-29.3%
Average Change	Avg. + 1 STD
STD of Change	Avg 1 STD
2.1%	18.1%
16.0%	-13.8%
Average Change	Avg. + 1 STD
STD of Change	Avg 1 STD

change, 16.0%, were computed. Weights that changed by more than the average change plus or minus one standard deviation (-13.8% to 18.1%) were subjected to the prescribed variance adjustment. (Note, the numbers were rounded to the nearest tenths for presentation and thus the observed rounding error.)

- 3) Variance adjustment was applied to the 9 workcenters where an FY90 adjusted weight is presented in exhibit 1-1. Briefly, variance adjustment is completed by combining FY89 cost and visit data, adjusted for inflation, and FY90 cost and visit data for each workcenter and recomputing the weights.
- 4) Weights for the BAR-Physical Medicine and BHI-Immediate Care Clinic workcenters were computed using FY90 data only as cost and visit data for these workcenters were not available in FY89. Additionally, weights for BFZ-Psychiatric Clinics Not Elsewhere Classified (NEC) and BHZ-Primary Medical Care Clinics NEC could not be directly computed as there were no visits to these workcenters in FY90. Thus, the BFZ workcenter was assigned the weight computed for BFA-Psychiatric, and the BHZ workcenter was assigned the weight computed for BHA-Primary Care.
- 5) Final weights, highlighted in exhibit 1-1, were then developed using the adjusted weight and exceptions described in step 4 where appropriate.

In addition to the FY90 final weights, the FY85 weights are presented in exhibit 1-1 for comparison. Note that the FY90 based weights are to be used for updating the resource allocation models only. FY90 ambulatory workload, as reported within the Defense Medical Information System (DMIS), uses the FY85 weights as presented in exhibit 1-1.

As shown at the bottom of the second page of exhibit 1-1, the average weight decreased by 8.5% after updating the weights. The standard deviation of the percentage change, however, was 20.7% and therefore many weights changed substantially and the observed changes were frequently much different from the average change. Exhibits 1-2 through 1-4 provide greater information concerning the impact of the update.

Exhibit 1-2 presents FY90 AWUS by workcenter in order of workcenter code. Note that data for the BHG-Occupational Health and BHH-PRIMUS/ NAVCARE workcenters are excluded as workload and expenses within these

EXHIBIT 1-2: FY90 AWUS USING FY85 AND FY90 BASED WEIGHTS BY WORKCENTER (Sorted by Workcenter Code)

		FY90 AWUs	FY90 AWUs	%Age	FY90	FY90 Share o
Workcenter	Description	(FY85 Weights)	(FY90 Weights)	Difference	Total Visits	Visits
BAA	Internal Medicine	62,756	64,027	2.0%	1,588,758	3.
BAB	Allergy	5,940	5,510	-7.2%	715,610	1.
BAC	Cardiology	12,231	8,635	-29.4%	336,007	0.
BAE	Diabetic	468	389	-16.9%	17,535	0.
BAF	Endocrinology	4,943	4,535	-8.3%	123,896	0.
BAG	Gastroenterology	6,683	6,782	1.5%	197,722	0
BAH	Hematology	3,508	3,701	5.5%	77,096	0
BAI	Hypertension	713	566	-20.7%	30,734	0
BAJ	Nephrology	7,411	6,881	-7.2%	117,827	0
BAK	Neurology	8,343	9,214	10.4%	229,209	. 0
BAL	Nutrition	6,277	4,448	-29.1%	494,221	1
BAM	Oncology	8,951	7,088	-20.8%	192,075	0
BAN	Pulmonory Disease	6,566	5,461	-16.8%	160,154	0
BAO	Rheumatology	3,159	2,975	-5.8%	92,105	0
BAP	Dermatology	14,991	14,367	-4.2%	694,037	1
BAQ	Infectious Disease	5,024	2,709	-46.1%	127,192	0
BAR	Physical Medicine	1,401	1,249	-10.9%	35,480	0
BAZ	Medical Clinic NEC	998	655	-34.4%	25,274	0
BBA	General Surgery	31,862	32,509	2.0%	923,544	2
B88	Cardiovascular and Thoracic Surgery	1,821	2,062	13.3%	48,301	0
BBC	Neurosurgery	3,430	2,983	-13.0%	58,842	0
BBD	Opthalmology	14,011	14,315	2.2%	507,633	1
88E	Organ Transplant	486	666	36.9%	6,724	0
BBF	Otolaryngology	14,423	11,680	-19.0%	472,894	1
BBG	Plastic Surgery	2,472	2,326	-5.9%	60,882	0
BBH	Proctology	453	488	7.7%	19,365	0
BBI	Urology	16,143	16,021	-0.8%	406,622	0
BBJ	Pediatric Surgery	26	14	-46.0%	518	0
8BZ	Surgical Clinics NEC	354	160	-54.8%	10,274	0
BCA	Family Planning	1,687	1,898	12.4%	67,768	0
BCB	Gynecology	39,370	42,540	8.1%	1,668,218	3
BCC	Obstetrics	38,955	39,704	1.9%	1,498,281	3
BDA	Pediatrics	67,243	63,209	-6.0%	3,362,162	7
BDB	Adolescent	3,406	2,615	-23.2%	134,086	0
BDC	Well Baby	5,922	5,201	-12.2%	379,629	0
BDZ	Pediatrics Clinics NEC	2,405	3,967	65.0%	120,226	0
BEA	Orthopedics	40,718	35,994	-11.6%	1,124,813	2
BEB	Cast	6,563	4,824	-26.5%	328,143	0
BEC	Hand Surgery	660	703	6.5%	28,466	0
BED	Neuromusculoskeletał Screening	852	1,019	19.5%	64,086	0
BEE	Orthopedic Appliance	6,625	4,775	-27.9%	203,209	0
BEF	Podiatry	8,154	7,304	-10.4%	386,444	0
BFA	Psychiatric	14,076	13,385	-4.9%	406,832	ō
BFB	Psychology	8,512	7,964	-6.4%	288,547	0
BFC	Child Guidance	2,533	2,378	-6.1%	90,772	ō
BFD	Mentai Health	21,215	20,001	-5.7%	639,000	1
BFE	Social Work Services	18,073	21,976	21.6%	848,512	1
BFF	Substance Abuse	13,531	9,211	-31.9%	407,563	Ó
BGA	Family Practice	113,751	103,989	-8.6%	4,244,453	9
BHA	Primary Care	264,399	259,372	-1.9%	10,053,185	23
BH8	Medical Exams	23,293	20,649	-11.3%	714,497	1
BHC	Optometry	30,082	30,266	0.6%	1,845,516	4
BHD	Audiology	9,477	8,592	-9.3%	631,801	1
BHE	Speech Pathology	1,375	1,049	-23.7%	59,275	o
BHF	Community Health	18,300	9,456	-23.7 % -48.3%	470,435	1
BHI	Immediate Care Clinic	3,374	3,028	-10.3%	128,285	0
BIA	Emergency Medical	134,857	165,048	22.4%	4,025,569	9
BJA	Flight Medicine	43,644	50,054	22.4% 14.7%		3
BKA	Underseas Medicine	i		-57.9%	1,526,027	
DNA	Universidas madicinis	317	133	-57.3%	10,418	0

workcenters are not included within the resource allocation methodology.

The net impact of updating the AWU weights was a 1.4% decrease in AWUs.

The observed difference between the average weight decline of 8.5% and computed workload decline of 1.4% is due to the distribution of visits across workcenters. While the average weight declined by 8.5%, the weight within BHA-Primary Care, where 23.1% of all visits occurred, decreased by only 1.9%. Additionally, the weight for BIA-Emergency Medical, where 9.2% of all FY90 visits occurred, increased by 22.4%. The observed increase in the weight for visits to the emergency medical care clinic may be due to the appropriate limitation of emergency care for medical emergencies only.

Exhibit 1-3 presents the same information as exhibit 1-2 except the workcenters are sorted by each workcenter's share of total visits. Exhibit 1-4 presents the information sorted by the percentage difference in AWUs. A closer look at exhibit 1-4 shows that 35% of all visits were within workcenters that had an increase in weight, and less than 7% of all visits were within workcenters where the AWU weight decreased by more than 20%.

The AWU is intended to provide a measure of facility wor!load and ambulatory resource requirements. While weights within a few particular workcenters may change substantially, the resulting impact on facility computed AWUs may be minor. This was the case observed with FY90 data. Exhibit 1-5 presents a histogram of the percentage change in facility AWUs when AWUs using FY85 and FY90 weights are compared. No facility had greater than a 10.0% change in AWUs, and only 31 of the 212 facilities compared had greater than a 5.0% change in AWUs.

Lastly, exhibit 1-6 presents the impact of updating the AWU weights by model peer group. Air Force facilities had less of a decline in ambulatory workload than did Army and Navy facilities for two reasons:

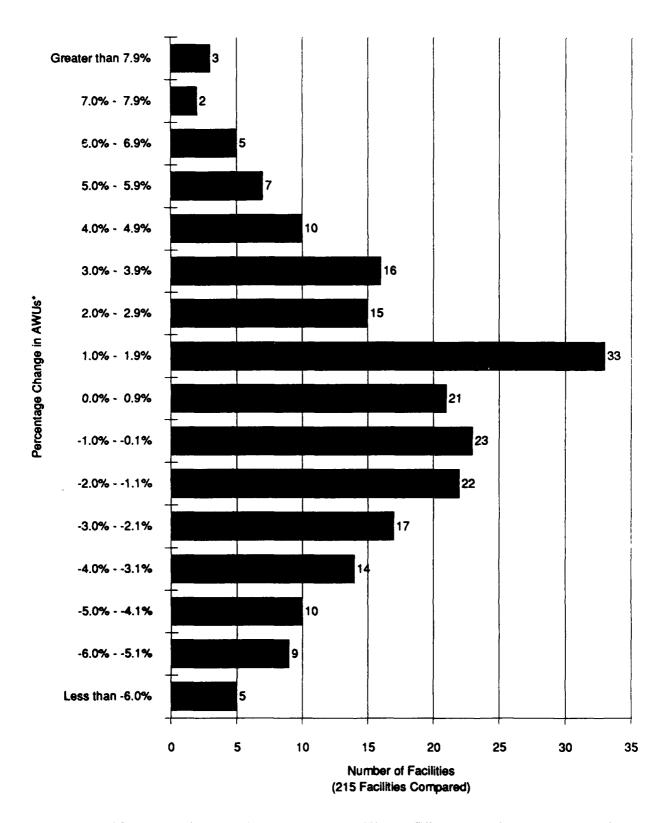
EXHIBIT 1-3: FY90 AWUS USING FY85 AND FY90 BASED WEIGHTS BY WORKCENTER (Sorted by Workcenter Share of Visits)

						FY90	FY90 Cu
		FY90 AWUs	FY90 AWUs	%Age	FY90	Share of	Share o
Norkcenter	Description	(FY85 Weights)	(FY90 Weights)	Difference	Total Visits	Visits	Visits
BHA	Primary Care	264,399	259,372	-1.9%	10,053,185	23.1%	23.1
BGA	Family Practice	113,751	103,989	-8.6%	4,244,453	9.8%	32.8
BIA	Emergency Medical	134,857	165,048	22.4%	4,025,569	9.2%	42.1
BDA	Pediatrics	67,243	63,209	-6.0% 0.6%	3,362,162	7.7%	49.8
BHC BCB	Optometry	30,082	30,266 42,540	0.6% 8.1%	1,845,516 1,668,218	4.2% 3.8%	54.1 57.9
BAA	Gynecology Internal Medicine	62,756	64,027	2.0%	1,588,758	3.7%	57.9 61.5
BJA	Flight Medicine	43,644	50,054	14.7%	1,526,027	3.7%	65.0
BCC	Obstetrics	38,955	39,704	1.9%	1,498,281	3.4%	68.5
BEA	Orthopedics	40,718	35,994	-11.6%	1,124,813	2.6%	71.
BBA	General Surgery	31,862	32,509	2.0%	923,544	2.1%	73.2
BFE	Social Work Services	18,073	21,976	21.6%	848,512	1.9%	75.
BAB	Allergy	5,940	5,510	-7.2%	715,610	1.6%	76.
BHB	Medical Exams	23,293	20,649	-11.3%	714,497	1.6%	78.
BAP	Dermatology	14,991	14,367	-4.2%	694,037	1.6%	80.6
BFD	Mental Health	21,215	20,001	-5.7%	639,000	1.5%	81.
BHD	Audiology	9,477	8,592	-9.3%	631,801	1.5%	82.9
880	Opthalmology	14,011	14,315	2.2%	507,633	1.2%	84.
BAL	Nutrition	6,277	4,448	-29.1%	494,221	1.1%	85.
BBF	Otolaryngology	14,423	11,680	-19.0%	472,894	1.1%	86.
BHF	Community Health	18,300	9,456	-48.3%	470,435	1.1%	87.
BFF	Substance Abuse	13,531	9,211	-31.9%	407,563	0.9%	. 88.
BFA	Psychiatric	14,076	13,385	-4.9%	406,832	0.9%	89
BBI	Urology	16,143	16,021	-0.8%	406,622	0.3%	90.
BEF	Podiatry	8,154	7,304	-10.4%	386,444	0.9%	91
BOC	Well Baby	5,922	5,201	-12.2%	379,629	0.9%	92
BAC	Cardiology	12,231	8,635	-29.4%	336.007	0.8%	92
BEB	Cast	6,563	4.824	-26.5%	328,143	0.8%	93
BFB	Psychology	8,512	7,964	-6.4%	288,547	0.7%	94
BAK	Neurology	8,343	9,214	10.4%	229,209	0.5%	94
BEE	Orthopedic Appliance	6,625	4,775	-27.9%	203,209	0.5%	95
BAG	Gastroenterology	6,683	6,782	1.5%	197,/22	0.5%	95
BAM	Oncology	8,951	7,088	-20 8%	192,075	0.4%	96
BAN	Pulmonory Disease	6,566	5,461	-16.8%	160,154	0.4%	96.
BOB	Adolescent	3,406	2,615	-23.2%	134,086	0.3%	96.
BHI	Immediate Care Clinic	3,374	3,028	-10.3%	128,285	0.3%	97.
BAQ	Infectious Disease	5,024	2,709	-46.1%	127,192	0.3%	97
BAF	Endocrinology	4,943	4,535	-8.3%	123,896	0.3%	97
BDZ	Pediatrics Clinics NEC	2,405	3,967	65.0%	120,226	0.3%	97
BAJ	Nephrology	7,411	6,881	-7.2%	117,827	0.3%	98
BAO	Rheumatology	3,159	2,975	-5.8%	92,105	0.2%	98
BFC	Child Guidance	2,533	2,378	-6.1%	90,772	0.2%	98
BAH	Hematology	3,508	3,701	5.5%	77,096	0.2%	98.
BCA	Family Planning	1,687	1,898	12.4%	67.768	0.2%	98
BED	Neuromusculoskeletal Screening	852	1,019	19.5%	64,086	0.1%	99.
BBG	Plastic Surgery	2,472	2,326	-5.9%	60,882	0.1%	99
BHE	Speech Pathology	1,375	1,049	-23.7%	59,275	0.1%	99
BBC	Neurosurgery	3,430	2,983	-13.0%	58,842	0.1%	99
888	Cardiovascular and Thoracic Surgery	1,821	2,062	13.3%	48,301	0.1%	99
BAR	Physical Medicine	1,401	1,249	-10.9%	35,480	0.1%	99
BAI	Hypertension	713	566	-20.7%	30,734	0.1%	99
BEC	Hand Surgery	660	703	6.5%	28,466	0.1%	99
BAZ	Medical Clinic NEC	998	655	-34.4%	25,274	0.1%	99
BBH	Proclology	453	488	7.7%	. 3,365	0.0%	99
BAE	Diabetic	468	389	-16.9%	17,535	0.0%	99
BKA	Underseas Medicine	317	133	-57.9%	10,418	0.0%	100
98Z	Surgical Clinics NEC	354	160	-54.8%	10,274	0.0%	100
98E	Organ Transplant	486	666	-54.6% 36.9%	6,724	0.0%	100
BBJ	Pediatric Surgery	26	14	-46.0%	518	0.0%	100
067	reductic outgery	20	14	~+0 .∪ 76	310	U.U76	100.
	Total	1,189,215	1 172,720	-1.4%	43,526,749	100.0%	100

EXHIBIT 1-4: FY90 AWUS USING FY85 AND FY90 BASED WEIGHTS BY WORKCENTER (Sorted by Percentage Difference in AWUS)

		FY90 AWUs	FY90 AWUs	%Age	FY90	FY90 Share of	FY90 Cum. Share of
Workcenter	Description	(FY85 Weights)	(FY90 Weights)	Difference	Total Visits	Visits	Visits
BDZ	Pediatrics Clinics NEC	2,405	3,967	65.0%	120,226	0.3%	0.3
BBE	Organ Transplant	486	666	36.9%	6,724	0.0%	0.39
BIA	Emergency Medical	134,857	165,048	22.4%	4,025,569	9.2%	9.59
BFE	Social Work Services	18,073	21,976	21.6%	848,512	1.9%	11.59
BED	Neuromusculoskeletal Screening	852	1,019	19.5%	64,086	0.1%	11.69
BJA	Flight Medicine	43,644	50,054	14.7%	1,526,027	3.5%	15.19
888	Cardiovascular and Thoracic Surgery	1,821	2,062	13.3%	48,301	0.1%	15.39
BCA	Family Planning	1,687	1,898	12.4%	67,768	0.2%	15.49
BAK	Neurology	8,343	9,214	10.4%	229,209	0.5%	15.99
BCB	Gynecology	39,370	42,540	8.1%	1,668,218	3.8%	19.89
BBH	Proctology	453	488	7.7%	19,365	ე.0%	19.89
BEC	Hand Surgery	660	703	6.5%	28,466	0.1%	19.99
BAH	Hematology	3,508	3,701	5.5%	77,096	0.2%	20.19
BBD	Opthalmology	14,011	14,315	2.2%	507,633	1.2%	21.29
BBA	General Surgery	31,862	32,509	2.0%	923,544	2.1%	23.39
BAA	Internal Medicine	62,756	64,027	2.0%	1,588,758	3.7%	27.09
BCC	Obstetrics	38,955	39,704	1.9%	1,498,281	3.4%	30.49
BAG	Gastroenterology	6,683	6,782	1.5%	197,722	0.5%	30.9
BHC	<u> </u>	30,082	30,266	0.6%	1,845,516	4.2%	35.1
	Optometry	1	•				
881	Urology	16,143	16,021 259,372	-0.8%	406,622	0.9%	36.1
BHA	Primary Care	264,399		-1.9%	10,053,185	23.1%	59.2
BAP	Dermatology	14,991	14,367	-4.2%	694,037	1.6%	60.8
BFA	Psychiatric	14,076	13,385	-4.9%	406,832	0.9%	61.79
BFD	Mental Health	21,215	20,001	-5.7%	639,000	1.5%	63.2
BAO	Rheumatology	3,159	2,975	-5.8%	92,105	0.2%	63.4
BBG	Plastic Surgery	2,472	2,326	-5.9%	60,882	0.1%	63.5
BDA	Pediatrics	67,243	63,209	-6.0%	3,362,162	7.7%	71.2
BFC	Child Guidance	2,533	2,378	-6.1%	90,772	0.2%	71.49
BFB	Psychology	8,512	7,964	-6.4%	288,547	0.7%	72.19
BAJ	Nephrology	7,411	6,881	-7.2%	117,827	0.3%	72.49
BAB	Allergy	5,940	5,510	-7.2%	715,610	1.6%	74.0
BAF	Endocrinology	4,943	4,535	-8.3%	123,896	0.3%	74.3
BGA	Family Practice	113,751	103,989	-8.6%	4,244,453	9.8%	84.1
BHD	Audiology	9,477	8,592	-9.3%	631,801	1.5%	85.5
BHI	Immediate Care Clinic	3,374	3,028	-10.3%	128,285	0.3%	85.8
BEF	Podiatry	8,154	7,304	-10.4%	386,444	0.9%	86.79
BAR	Physical Medicine	1,401	1,249	-10.9%	35,480	0.1%	86.89
BHB	Medical Exams	23,293	20,649	-11.3%	714,497	1.6%	88.49
BEA	Orthopedics	40,718	35,994	-11.6%	1,124,813	2.6%	91.09
BDC	Well Baby	5,922	5,201	-12.2%	379,629	0.9%	91.99
BBC	Neurosurgery	3,430	2,983	-13.0%	58,842	0.1%	92.09
BAN	Pulmonory Disease	6,566	5,461	-16.8%	160,154	0.1%	92.4
BAE	Diabetic	468	389	-16.9%	17,535	0.4%	92.4
BBF	Otolaryngology	14,423	11,680	-19.0%	472,894	1.1%	93.5
BAI	Hypertension	713	566	-19.0%	30,734	0.1%	93.5
BAM		8,951	7,088	-20.7% -20.8%		0.1%	93.6
	Oncology		7,068 2,615		192,075		
808 808	Adolescent	3,406		-23.2%	134,086	0.3%	94.3
BHE	Speech Pathology	1,375	1,049	-23.7%	59,275	0.1%	94.5
BEB	Cast	6,563	4,824	-26.5%	328,143	0.8%	95.2
BEE	Orthopedic Appliance	6,625	4,775	-27.9%	203,209	0.5%	95.7
BAL	Nutrition	6,277	4,448	-29.1%	494,221	1.1%	96.8
BAC	Cardiology	12,231	8,635	-29.4%	336,007	0.8%	97.6
BFF	Substance Abuse	13,531	9,211	-31.9%	407,563	0.9%	98.5
BAZ	Medical Clinic NEC	998	655	-34.4%	25,274	0.1%	98.6
BBJ	Pediatric Surgery	26	14	-46.0%	518	0.0%	98.6
BAQ	Infectious Disease	5,024	2.709	-46.1%	127,192	0.3%	98.9
BHF	Community Health	18,300	9,456	-48.3%	470,435	1.1%	100.0
88Z	Surgical Clinics NEC	354	160	-54.8%	10,274	0.0%	100.0
BKA	Underseas Medicine	317	133	-57.9%	10,418	0.0%	100 0

EXHIBIT 1-5: HISTOGRAM OF PERCENTAGE CHANGE IN FACILITY FY90 AWUS USING FY85 AND FY90 BASED WEIGHTS



^{*} A percentage change less than zero indicates the AWUs using FY90 weights are less than that using FY85 weights

EXHIBIT 1-6: FY90 AWUS USING FY85 AND FY90 BASED WEIGHTS BY PEER GROUP

Service and	FY90 AWUs	FY90 AWUs	%Age
Facility Type	(FY85 Weights)	(FY90 Weights)	Difference
ARMY			
Medical Centers	170,824	162,292	-5.0%
CONUS Comm. Hospitals	262,584	254,591	-3.0%
Overseas Hospitals	90,279	89,675	-0.7%
Clinics	5,628	5,354	-4.9%
Total Army Facilities	529,314	511,912	-3.3%
NAVY			
 Medical Centers	86,437	83,513	-3.4%
CONUS Comm. Hospitals	133,278	131,959	-1.0%
Overseas Hospitals	29,289	29,440	0.5%
Clinics	18,701	18,238	-2.5%
Total Navy Facilities	267,705	263,149	-1.7%
AIR FORCE			
Medical Centers	79,803	78,645	-1.5%
CONUS Comm. Hospitals	225,971	231,019	2.2%
Overseas Hospitals	31,443	31,985	1.7%
Clinics	54,980	56,009	1.9%
Total USAF Facilities	392,196	397,659	1.4%
DoD			
Medical Centers	337,063	324,450	-3.7%
CONUS Comm. Hospitals	621,833	617,569	-0.7%
Overseas Hospitals	151,011	151,100	0.1%
Clinics	79,308	79,601	0.4%
Total ALL Facilities	1,189,215	1,172,720	-1.4%

- 11.4% of all Air Force FY90 visits were reported through the BIA-Emergency Medical workcenter, where the AWU weight increased by 22.4%, while Army and Navy facilities reported 8.4% and 7.8% of their visits within this workcenter, respectively; and
- 7.9% of all Air Force FY90 visits were reported through the BJA-Flight Medicine workcenter, where the AWU weight increased by 14.7%, while Army and Navy facilities reported 1.1% and 1.7% of their visits within this workcenter, respectively.

Similarly, observed differences between medical centers and other facilities are due to differences in visit mixes including the fact that medical centers tend to have fewer ER visits relative to other facilities.

In summary, while an 8.5% decrease in the overall average AWU weight was observed, only a 1.4% decrease in measured ambulatory workload resulted. The impact at the facility level was relatively small, with no facility having greater than a 10% change in AWU credit and only 31 of 212 facilities had greater than a 5% change in workload credit. The FY90 final weights as presented in exhibit 1-1 were employed as input weights to obtain the ambulatory workload measure used for completing the FY90 resource allocation cost model update.